QC ABSTRACT

NAME OF WORK: Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
2	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-19-37** **Date: 13-04-22**

Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.

Address : Project Division, BBMP, Bangalore.

Project Name : Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04

Agency : M/s NCC Limited, Prop. C Premachandar Reddy # 301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore.

Customer's Reference : EE(Project)/YNKZone/WO/23/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-22

Sample Type : M.Sand

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-04-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	22	22	2.2	97.8	90-100	90-100	90-100	95-100
3	2.36 mm	85	107	10.7	89.3	60-95	75-100	85-100	95-100
4	1.18 mm	244	351	35.1	64.9	30-70	55-90	75-100	90-100
5	600 micron	217	568	56.8	43.2	15-34	35-59	60-79	80-100
6	300 micron	248	816	81.6	18.4	5-20	8-30	12-40	15-50
7	150 micron	98	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-19-37** **Date: 13-04-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

NCC LIMITED Bangalore

****End of Report****

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-07-19-37** **Date: 11-05-22**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04
Agency	:	M/s NCC Limited, Prop. C Premachandar Reddy # 301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore.
Customer Reference	:	EE(Project)/YNKZone/WO/23/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	09-05-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	225	225	2.0	98.0	95-100
22.4	2248	2473	22.5	77.5	60-80
11.2	2175	4648	42.3	57.7	40-60
4.75	2385	7033	63.9	36.1	25-40
2.36	1768	8801	80.0	20.0	15-30
0.6	702	9503	86.4	13.6	8-22
0.075	1175	10678	97.1	2.9	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-07-19-37** **Date: 11-05-22**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04
Agency	:	M/s NCC Limited, Prop. C Premachandar Reddy # 301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore.
Customer Reference	:	EE(Project)/YNKZone/WO/23/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	09-05-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.5	302.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	77.1	73.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.1	228.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	25.5	24.2
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-07-19-37** **Date: 11-05-22**
Customer	:	Assistant Executive Engineer, Project Division, BBMP, Bangalore.
Address	:	Project Division, BBMP, Bangalore.
Project Name	:	Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04
Agency	:	M/s NCC Limited, Prop. C Premachandar Reddy # 301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore.
Customer Reference	:	EE(Project)/YNKZone/WO/23/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	09-05-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	23.4%	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

NCC LIMITED

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-07-19-37 **Date: 11-05-22**

Customer : Assistant Executive Engineer, Project Division, BBMP, Bangalore.

Address : Project Division, BBMP, Bangalore.

Project Name : Restoration of Road cut portion due to laying UGD pipeline at proposed White Topping road along 3rd A Cross Road, 1st A Main Road and 16th B Cross Road in Ward NO.04

Agency : M/s NCC Limited, Prop. C Premachandar Reddy # 301, Batavia Chambers, 8, Kumara Krupa Road, Bangalore.

Customer Reference : EE(Project)/YNKZone/WO/23/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 09-05-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	228	228	2.1	97.9	95-100
22.4	2254	2482	22.6	77.4	60-80
11.2	2198	4680	42.5	57.5	40-60
4.75	2375	7055	64.1	35.9	25-40
2.36	1799	8854	80.5	19.5	15-30
0.6	802	9656	87.8	12.2	8-22
0.075	1077	10733	97.6	2.4	0-5

* The results obtained are satisfactory as per standard requirements.

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End of Report